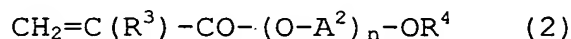
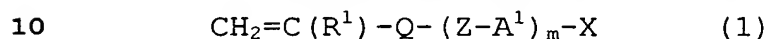


CLAIMS (Amendment under PCT Article 34)

1. (Amended) A friction modifier for a lubricating oil

5 which comprises an oil-soluble copolymer (A) containing at least one unit of a monomer (a) represented by the general formula (1) and at least one unit of a monomer (b) represented by the general formula (2), and having a weight average molecular weight of 3,000 or more:



in the formula, X is a polar group represented by the formula $-\text{PH}_2$, $-\text{NH}_2$ or $-(\text{O})_a-\text{P}(=\text{O})_b(\text{OR}^2)_2$; either of a or b is 1, and the other is 0 or 1; two R^2 s are the same or
15 different and each represents H, an alkyl group having 1 to 24 carbon atoms, a group represented by the formula $-(\text{A}^1-\text{Z})_m-\text{Q}-\text{C}(\text{R}^1)=\text{CH}_2$ or a cation of $\text{M}_{1/f}$; M is a f valent cation; f is 1 or 2; R^1 represents H or a methyl group; Z represents $-\text{O}-$; A^1 represents an alkylene group having 2 to
20 18 carbon atoms; m represents an integer of 1 or 2 to 50; Q represents $-\text{CO}-$; R^3 represents H or a methyl group; n represents an integer of 0 or 1 to 30; A^2 represents an alkylene group having 2 to 18 carbon atoms; R^4 represents an aliphatic hydrocarbon group having 1 to 32 carbon atoms,
25 an alicyclic hydrocarbon group having 5 to 7 carbon atoms, or an aralkyl group having 7 to 32 carbon atoms; when there are a plurality of A^1 , R^1 , m and A^2 , they may be the same or different.

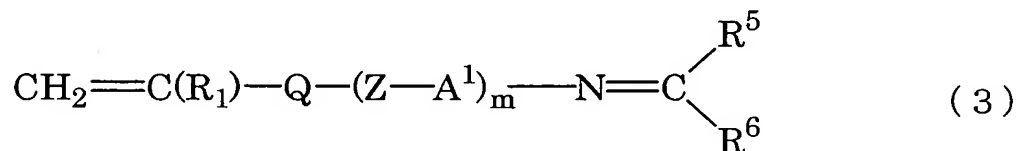
30 2. (Cancelled)

3. The modifier according to Claim 1,

wherein X is represented by the formula $-(O)_a-$
 $P(=O)(OR^2)_2$.

4. The modifier according to Claim 1,
 5 wherein X is $-NH_2$.

5. The modifier according to Claim 4,
 wherein the copolymer (A) is obtainable by
 hydrolyzing a copolymer (A0) containing a unit induced from
 10 a monomer (a01) represented by the general formula (3):



15 in the formula, R^1 , Q, Z, A^1 , and m are the same as those
 in the general formula (1); R^5 and R^6 are the same or
 different and each represents H or an alkyl group having 1
 to 8 carbon atoms, or R^5 and R^6 are coupled together to be
 20 an alkylene group having 3 to 11 carbon atoms, and thereby
 form a ring together with an adjacent carbon atom.

6. The modifier according to Claim 5,
 wherein the copolymer (A) is obtainable by
 25 hydrolyzing the copolymer (A0) in the absence of an acid.

7. The modifier according to Claim 1,
 wherein the copolymer (A) contains 0.01 to 50% by
 weight of the unit induced from the monomer (a).
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8. The modifier according to Claim 1,
 wherein said monomer (b) comprises 2 to 50 % by
 weight of a monomer (b1) and 50 to 98 % by weight of a
 monomer (b2),
 35 said monomer (b1) being represented by the general

formula (2), in the formula, n is 0 or 1, R⁴ is an alkyl group having 1 to 7 carbon atoms, an alkenyl group having 2 to 7 carbon atoms, a cycloalkyl group having 5 to 7 carbon atoms, or an aralkyl group having 7 to 8 carbon atoms, and

5 said monomer (b2) being represented by the general formula (2), in the formula, n is 0 or 1, R⁴ is an alkyl group or an alkenyl group having 8 to 32 carbon atoms, or an aralkyl group having 9 to 32 carbon atoms.

10 9. The modifier according to Claim 8, wherein n is 0.

10. The modifier according to Claim 1, wherein (A) has a weight average molecular weight of
15 3,000 to 500,000.

11. A friction modifier composition which comprises the copolymer (A) according to any one of Claims 1 to 10, and at least one species selected
20 from the group consisting of a diluent and other additives.

12. The composition according to Claim 11 which comprises 20 to 90% by weight of (A) and 10 to 80% by weight of the diluent.

25 13. A lubricating oil composition which comprises base oil, and the modifier or modifier composition according to any one of Claim 1 to 12, and 0.01 to 40% by weight of the copolymer (A) on the basis
30 of the weight of the base oil.

14. The composition according to Claim 13, wherein the base oil is at least one species selected from the group consisting of a mineral oil having high
35 viscosity index of 100 to 160, a hydrocarbon synthetic

lubricating oil, and an ester synthetic lubricating oil.

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